

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

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1. (currently amended) A disk unit, connectable to a server computer and a client computer via a network, wherein the server computer manages a plurality of function programs that the client computer requests to execute and manages data stored in the disk unit, the disk unit comprising:

disk storage media for storing data; and

a control unit which includes a memory for storing a the function programs and function information relating to function programs ~~execution of the function that are sent from the server computer,~~

~~wherein said control unit executes the function in response to a function execution request from the client computer and examines, based on the function information, whether an access from external of said disk unit to the data stored in said disk storage media is allowable or not and restricts accesses to the data stored in the disk storage media from external of said disk unit to the data stored in said disk storage media during execution of the function~~ wherein said control unit receives one of the function programs from the server computer and stores the received function program into the memory,

wherein said control unit receives a function execution request, which is sent from the client computer to the server computer to the request execution of one of the function programs, from the server computer, selects the requested function

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program from the memory, selects the function information in connection with the
selected function program, and executes the selected function program in condition
described into the selected function information, and

wherein said control unit examines, based on the selected function
information, whether an access from external of said disk unit to the data stored in
said disk storage media is allowable and restricts accesses to the data stored in the
disk storage media from external of said disk unit to the data stored in said disk
storage media during execution of the selected function program.

2. (currently amended) A disk unit according to claim 1, wherein:
the selected function program is a selection or extraction process in a
database.

3. (currently amended) A disk unit according to claim 1, wherein:
execution of the selected the function is program includes a direct data
transfer between the client and disk units without passing through the server.

4. (currently amended) A disk unit according to claim 1, wherein:
the selected function information comprises a list that indicates an accessible
area, and
wherein said control unit examines whether access to the data is allowable or
~~not~~ based on the list.

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5. (currently amended) A disk unit according to claim 4, wherein:
the list comprises attributes, ~~such as~~ indicating at least one of read, write and
executable, related to access restriction during ~~function execution~~ of the selected
function program.

6. (currently amended) A disk unit according to claim 4, wherein:
said control unit abnormally terminates execution of the selected function
program in the case that an access occurs in violation of the access examination.

7. (currently amended) A disk unit according to claim 1, wherein:
said control unit monitors whether execution of the selected function program
was performed successfully and restores data stored in said disk storage media to
its state prior to execution of ~~said~~ the selected function program in the case that
execution of the selected function program was not successful.

8. (currently amended) A disk unit according to claim 1, wherein:
said control unit monitors whether execution of the selected function program
was performed successfully, sets in the function information a user command that
specifies whether to restore data stored in said disk storage media to its state prior to
execution of the selected function program in the case that execution of the selected
function program was not successful and restores data stored in said disk storage
media to its state prior to execution of the function only in the case where a
command has been set in the function information to restore data stored in said disk

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storage media to its state prior to execution of the selected function program in the case that execution of the selected function program was not successful.

9. (currently amended) A disk unit according to claim 7, wherein:
said control unit does not overwrite non-updated data with data updated from the selected function program execution, until the execution of the selected function program is complete.

10. (currently amended) A disk unit according to claim 8, wherein:
a control unit does not overwrite non-updated data with data updated from the selected function program execution, until the execution of the selected function program is complete.

11. (currently amended) A disk unit according to claim 9, wherein:
said control unit stores data updated from said selected function program execution in the memory:

Claims 12 and 13 (canceled)

14. (currently amended) A disk unit, connectable to a client computer via a network, comprising:
disk storage media to store data; and
a control unit,

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wherein said control unit receives function execution requests and user ID information from a client unit via a network to request execution of one of a plurality of function programs, selects the requested function program, and

wherein said control unit, based on said user ID information, creates function information to examine accesses from external of said disk unit to an access area for data stored in said storage media at each function execution request, selects the function information in connection with the selected function program, executes the selected function program as per the selected function information and examines accesses from external of said disk unit to the access area based on said function information, and restricts the access.

15. (currently amended) A method of controlling a disk unit connectable to a server computer and a client computer via a network, wherein the disk unit has disk storage media for storing data, and a control unit,

wherein the server computer manages a function program that the client computer requests to execute and manages data stored in the disk unit, the method comprising the steps of:

receiving, in said disk unit, a function program and function information relating to execution of the function program from the server;

executing, in said disk unit, the function program in response to a function execution request from the client computer as per the function information; and

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examining, in said disk unit, based on the function information, accesses from external of said disk unit to the data stored in said disk storage media and restricting the access during execution of the function.

16. (currently amended) A method of controlling a disk unit according to claim 15, wherein:

the selected function program is a selection or extraction process in a database.

17. (currently amended) A method of controlling a disk unit according to claim 15, wherein:

the selected function program is a direct data transfer between the client and disk units without passing through the server.

18. (previously amended) A method of controlling a disk unit according to claim 15, wherein:

the function information comprises a list that indicates an accessible area, and wherein said control unit examines accesses for the data based on the list.

Claim 19 (canceled).

20. (currently amended) A client server system comprising:
a client computer;

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a server computer connected to the client computer; and
a disk unit connected to the client computer and the server computer, the disk unit having disk storage media for storing data, and a control unit,
wherein said client computer requests execution of a function program ~~execution~~ to said server computer,
wherein said server computer creates function information relating to execution of the function program that has been requested to be execute ~~executed~~ from said client computer, and
wherein said disk unit receives the function program and the function information from the server computer, executes the function program as per the function information and examines , based on the function information, accesses from external of said disk unit to the data stored in said disk storage media and restricts the accesses during execution of the function program.